

FIG. 2A



FIG. 2B

FIG. 3A

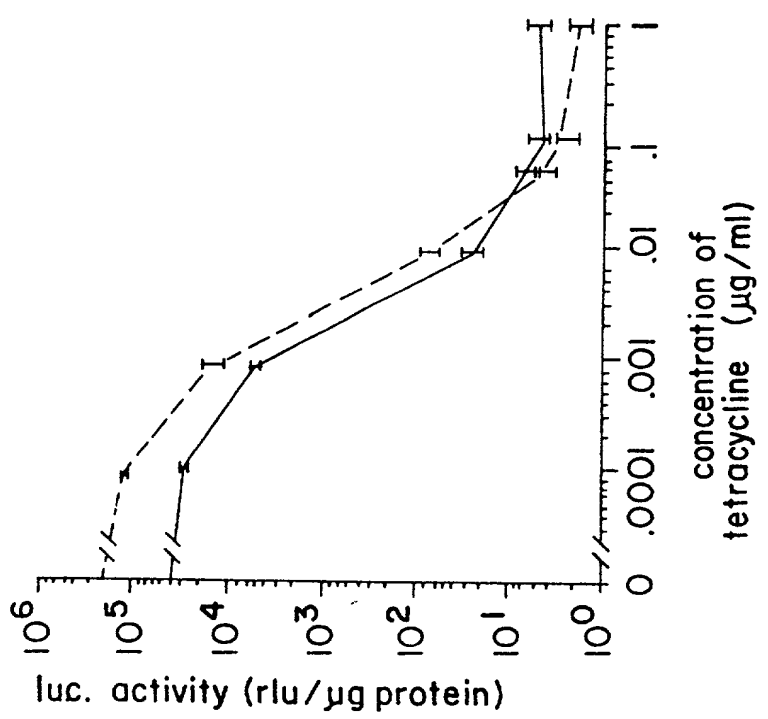
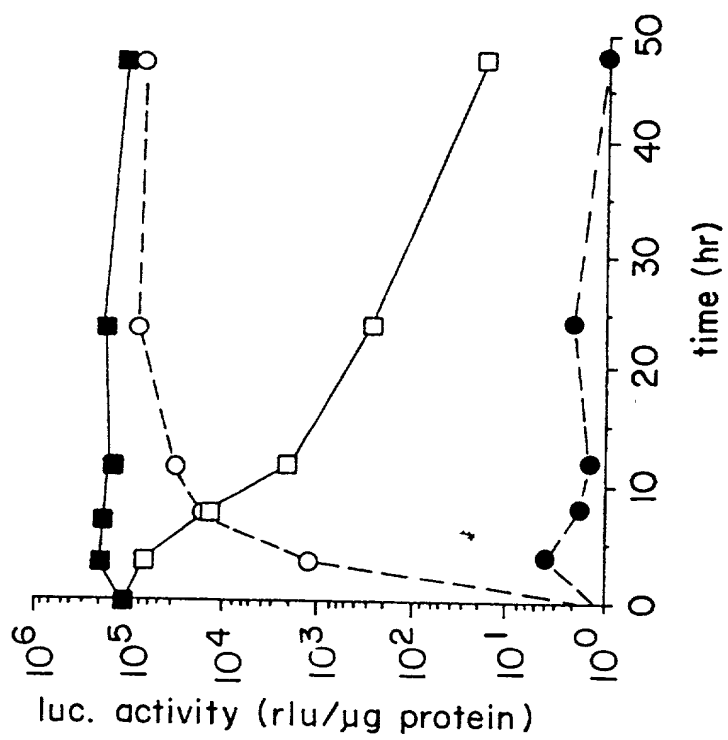


FIG. 3B



ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT	
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Leu Asn	
GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA	
Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val	
GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC	
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Leu Asp Ala	
TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG	
Leu Ala Ile Glu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly	
GAA AGC TGG CAA GAT TTT TTA CGT AAT AAG GCT AAA AGT TTT AGA TGT GCT TTA	
Glu Ser Trp Gln Asp Phe Leu Arg Asn Lys Ala Lys Ser Phe Arg Cys Ala Leu	

Fig. 4A

Fig. 4B

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation  $f(x) = \int_0^x f(t) dt$ . It is shown that  $f(x)$  is a continuous function and that it satisfies the functional equation  $f(x+y) = f(x) + f(y)$ .

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA  
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Leu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCC GCG TAC AGC CGC GCG CGT ACG AAA AAC  
Lys Gln Leu Lys Cys Glu Ser Gly Ser Ala Tyr Ser Arg Ala Arg Thr Lys Asn

AAT TAC GGG TCT ACC ATC GAG GGC CTG CTC GAT CTC CCG GAC GAC GCC CCC  
Asn Tyr Gly Ser Thr Ile Glu Gly Leu Asp Leu Pro Asp Asp Ala Pro

GAA GAG GCG GGG CTG GCG GCT CCG CGC CTG TCC TTT CTC CCC GGA CAC ACG  
Glu Glu Ala Ala Gly Leu Ala Ala Pro Arg Leu Ser Phe Leu Pro Ala Gly His Thr

CGC AGA CTG TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC  
Arg Arg Leu Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His

Fig. 4C

TTA	GAC	GGC	GAG	GAC	GTG	GCG	ATG	GCG	CAT	GCC	GAC	GCG	CTA	GAC	GAT	TTC	GAT
Leu	Asp	Gly	Glu	Asp	Val	Ala	Met	Ala	His	Ala	Asp	Ala	Leu	Asp	Asp	Phe	Asp
CTG	GAC	ATG	TTG	GGG	GAC	GGG	GAT	TCC	CCG	GGT	CCG	GGA	TTT	ACC	CCC	CAC	GAC
Leu	Asp	Met	Leu	Gly	Asp	Gly	Asp	Ser	Pro	Gly	Pro	Gly	Phe	Thr	Pro	His	Asp
TCC	GCC	CCC	TAC	GGC	GCT	CTG	GAT	ATG	GCC	GAC	TTC	GAG	TTT	GAG	CAG	ATG	TTT
Ser	Ala	Pro	Tyr	Gly	Ala	Leu	Asp	Met	Ala	Asp	Phe	Glu	Phe	Glu	Gln	Met	Phe
ACC	GAT	CCC	CTT	GGA	ATT	GAC	GAG	TAC	GGT	GGG	TAG						
Thr	Asp	Pro	Leu	Gly	Ile	Asp	Glu	Tyr	Gly	Gly	*						

1.

ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn
GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val
GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Asp Ala
TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Clu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly
GAA AGC TGG CAA GAT TTT TTA CGT AAT AAC GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Gln Asp Phe Leu Arg Asn Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 5A



CTA	AGT	CAT	CGC	GAT	GGA	GCA	AAA	GTA	CAT	TTA	GGT	ACA	CGG	CCT	ACA	GAA	AAA
Leu	Ser	His	Arg	Asp	Gly	Ala	Lys	Val	His	Leu	Gly	Thr	Arg	Pro	Thr	Glu	Lys
CAG	TAT	GAA	ACT	CTC	GAA	AAT	CAA	TTA	GCC	TTT	TTA	TGC	CAA	CAA	GGT	TTT	TCA
Gln	Tyr	Glu	Thr	Leu	Glu	Asn	Gln	Leu	Ala	Phe	Leu	Cys	Gln	Gln	Gly	Phe	Ser
CTA	GAG	AAT	GCA	TTA	TAT	GCA	CTC	AGC	GCT	GTG	GGG	CAT	TTT	ACT	TTA	GGT	TGC
Leu	Glu	Asn	Ala	Leu	Tyr	Ala	Leu	Ser	Ala	Val	Gly	His	Phe	Thr	Leu	Gly	Cys
GTA	TTG	GAA	GAT	CAA	GAG	CAT	CAA	GTC	GCT	AAA	GAA	GAA	AGG	GAA	ACA	CCT	ACT
Val	Leu	Glu	Asp	Gln	Glu	His	Gln	Val	Ala	Lys	Glu	Glu	Arg	Glu	Thr	Pro	Thr
ACT	GAT	AGT	ATG	CCG	CCA	TTA	TTA	CGA	CAA	GCT	ATC	GAA	TTA	TTT	GAT	CAC	CAA
Thr	Asp	Ser	Met	Pro	Pro	Leu	Leu	Arg	Gln	Ala	Ile	Glu	Leu	Phe	Asp	His	Gln

Fig. 5B

GGT	GCA	GAG	CCA	GCC	TTC	TTA	TTC	GGC	CTT	GAA	TTG	ATC	ATA	TGC	GGA	TTA	GAA
Gly	Ala	Glu	Pro	Ala	Phe	Leu	Phe	Gly	Leu	Glu	Leu	Ile	Ile	Cys	Gly	Leu	Glu
AAA	CAA	CTT	AAA	TGT	GAA	AGT	GGG	TCT	GAT	CCA	TCG	ATA	CAC	ACG	CGC	AGA	CTG
Lys	Gln	Leu	Lys	Cys	Glu	Ser	Gly	Ser	Asp	Pro	Ser	Ile	His	Thr	Arg	Arg	Leu
TCG	ACG	GCC	CCC	CCG	ACC	GAT	GTC	AGC	CTG	GGG	GAC	GAG	CTC	CAC	TTA	GAC	GGC
Ser	Thr	Ala	Pro	Pro	Thr	Asp	Val	Ser	Leu	Gly	Asp	Glu	Leu	His	Leu	Asp	Gly
GAG	GAC	GTG	GCG	ATG	GCG	CAT	GCC	GAC	GCG	CTA	GAC	GAT	TTC	GAT	CTG	GAC	ATG
Glu	Asp	Val	Ala	Met	Ala	His	Ala	Asp	Ala	Leu	Asp	Asp	Phe	Asp	Leu	Asp	Met
TTG	GGG	GAC	GGG	GAT	TCC	CCG	GGT	CCG	GGA	TTT	ACC	CCC	CAC	GAC	TCC	GCC	CCC
Leu	Gly	Asp	Gly	Asp	Ser	Pro	Gly	Pro	Gly	Phe	Thr	Pro	His	Asp	Ser	Ala	Pro

Fig. 5C

TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT ACC GAT GCC  
Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Gln Met Phe Thr Asp Ala

CTT GGA ATT GAC GAG TAC GGT GGG TTC TAG  
Leu Gly Ile Asp Glu Tyr Gly Gly Phe \*

*Fig 5D*

GAATTCCTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTC  
 CCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGT  
 GAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCC  
 TATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGA  
 AAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGT  
 CGAGTAGGCGGTACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGC  
 CTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGGACCGATCCAGCCCTCCGC  
 GG

*Fig. 6*

GAATTCCTCGACCCGGGTACCGAGCTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTA  
AACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCT  
ATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAA  
CTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTAT  
CACTGATAGGGAGTGGTAAACTCGACTTTCACCTTTTCTCTATCACTGATAGGGAGTGGTAAACT  
CGAGTAGGCGTGACGGTGGGAGGCCATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGC  
CTGGAGACGCCATCCACGCTGTTTGTGACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGC  
GG

*Fig. 7*

GAGCTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTC  
TATCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAA  
ACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTA  
TCACTGATAGGAGTGGTAAACTCGACTTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAAC  
TCGACTTTCACTTTTCTCTATCACTGATAGGAGTGGTAAACTCGAGATCCGGCGAATTTCGAAC  
ACGCAGATGCAGTCGGGGCGCGGTCCGAGGTCCACTTCGCATATTAAGGTGACGCGTGTGG  
CCTCGAACACCGAG

*Fig. 8*

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC  
 AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT  
 CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG  
 TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG  
 AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTA  
 GCGGTGTACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG  
 ACGCCATCCACGCTGTTTGTACCTCCATAGAAAGACACCGGACCGATCCAGCCTCCGCGGCCCC  
 GAATTCGAGCTCGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAAT  
 TCCAGGAGGTGGAGATCCGCGGGTCCAGCCAAACCCACACCCATTTCCTCCTCCCTCGCCCC  
 TATATCCCGCACCCCTCCTCCTAGCCCTTTCCTCCTCCCGAGAGACGGGGAGAGAAAAG  
 GGGAGTT'AGGTCGACATGACTGAGCTGAAGGCAAGGAACCTCGGGCTCCCCACGTGGCGGGC  
 GCGCGCCCTCCCCCACCGAGGTCGGATCCAGCTCCTGGGTGCGCCGGACCCCTGGCCCCCTTCC  
 AGGGGAGCCAGACCTCAGAGGCCCTCGTCTGTAGTCTCCGCCATCCCCATCTCCCTGGACGGGTT

*Fig. 9A*

GCTCTTCCCCGGCCCTGTACAGGGCAGAACCCCCAGACGGGAAGACGCAGGACCCACCGTCG  
 TTGTCAGACGTGGAGGGCGCATTTCTTGAGTCGAAGCCCCGGAGGGGGCAGGAGACAGCAGCT  
 CGAGACCTCCAGAAAAGACAGCGGCCCTGCTGGACAGTGTCTCGACACGCTCCTGGCGCCCTC  
 GGGTCCCGGCAGAGCCACGCCAGCCCTGCCACCTGCGAGGCCATCAGCCCGTGGTGCCTGTTT  
 GGCCCCGACCTTCCGAAGACCCCCGGGCTGCCCCCCGCTACCAAGGGTGTGGCCCCCGCTCA  
 TGAGCCGACCCGAGGACAAGGCAGGCCACAGCTCTGGGACGGCAGCGGCCACAAGTGCTGCC  
 CAGGGGACTGTACCATCCAGGCAGCTGTCTGCTCCCCCTCTCTGGAGCCCTCACTGGCCGGCA  
 GTGAAGCCATCCCCGCAGCCCGCTGCCGTGCAGGTAGACGAGGAGACAGCTCCGAATCCGAGG  
 GCACCGTGGGCCCGCTCCTGAAGGGCCAACTCGGGCACTGGGAGGCACGGCGGCCGGAGGAGG  
 AGCTGCCCCCGTCCGCTCTGGAGCGCCGCAGGAGCGCTGCCCTTGTCCCCAAGGAAGATTCT  
 CGCTTCTCGGCGCCAGGGTCTCCTTGGCGGAGCAGGACGCGCCCGTGGCGCCTGGGGCGCTCCC  
 CGCTGGCCACCTCGGTGGTGGATTTCATCCAGTGCCCCATCCTGCCTCTCAACCACGCTTTCTCT  
 GGCCACCCGCACCGGCAGCTGCTGGAGGGGAGAGCTACGACGGGGGGGGCGCGGCCGCCAGC

*Fig. 9B*



CCCTTCG<sup>1</sup>. C C C G C A G C G G G C T C C C C C T C T G C C T C G T C C A C C C C T G T G G C G G C G G C A C T T C C  
 C C G A C T G C A C C T A C C C G C C C G A C G C C G A G C C A A A G A T G A C G C G T T C C C C C T C T A C G G C G A C T T  
 C C A G C C G C C C G C C T C A A G A T A A A G A G A G A G A A G C C G C G A G C C G C G G C C G C G C G C T C C C C G  
 C G T A C G T A C C T G G T G G T G C A A A C C C C G C C C T T C C C G G A C T T C C A G C T G G C A G C G C C G C  
 C G C A C C C T C G C T G C C C T C G A G T G C C C T C G T C C A G A C C C G G G A A G C G C G G T G G C G C C T C  
 C C A G G C A G T G C C T C C G T C T C C T C G T C C T C G T C G G G T C G A C C C T G G A G T G C A T C C T G T A C  
 A A G G C A A A G G C G C C C C A G C A G G G C C C C T T C G C G C C G C T G C C C T G C A A G C C T C C G G G C G  
 C C G G C G C C T G C T C C C G C G G A C G G C C T G C C C T C C A C C T C C G C C T C G G G C G C A G C C G C C G  
 G C C G C C C C T G C G C T C T A C C C G A C G C T C G G C C T C A A C G G A C T C C C G C A A C T C G G C T A C C A G G C C  
 G C C G T G C T C A A G A G G G C C T G C C G C A G G T C T A C A G C C C C T A T C T C A A C T A C C T G A G C C G G A T T  
 C A G A A G C C A G T C A G A G C C C A C A G T A C A G C T T C G A G T C A C T A C C T C A G A A G A T T T G T T G A T C T G  
 T G G G A T G A A G C A T C A G G C T G T C A T T A T G G T G T C C T C A C C T G T G G G A G C T G T A A G G T C T T C T T T  
 A A A G G C A A T G G A A G G C A G C A T A A C T A T T A T G T G C T G G A A G A A T G A C T G C A T T G T T G A T A

Fig. 9C

AAATCCGCAGGAAAAAAGTGTCCCGCGTGTGCGCTTAGAAAAGTGCTGTCAAGCTGGCATGGTCCT  
 TGGAGGCGAAAGTTTAAAAAGTTCAATAAAGTCAGAGTCATGAGAGCACTCGATGCTGTGTGCT  
 CTCCCACAGCCAGTGGGCATTCCAAATGAAAGCCAAACGAATCACTTTTCTCCAAGTCAAGAGA  
 TACAGTTAATTCCTCCCTCTAATCAACCTGTTAATGAGCATTTGAACCAGATGTGATCTATGTCAGG  
 ACATGACAACACAAAGCCTGATACCTCCAGTTCCTTGTGCTGACGAGTCTTAATCAACTAGGCGAG  
 CGGCAACTTCTTTCAGTGGTAAAAATGGTCCAAATCTCTTCCAGGTTTTCGAAACTTACATATTG  
 ATGACCAGATAACTCTCATCCAGTATTCTTGGATGAGTTTAATGGTATTTGGACTAGGATGGAG  
 ATCCTACAAACATGTCAAGTGGGCAGATGCTGTATTTTGCACCTGATCTAATATTAATGAACAG  
 CGGATGAAAGAATCATCATCTATTCACCTATGCCCTTACCATGTGCGCAGATACCGCAGGAGTTTG  
 TCAAGCTTCAAGTTAGCCAAGAAGAGTTCCTCTGTCATGAAAGTATTACTACTTCTTAATACAAT  
 TCCTTTGGAAGGACTAAGAAGTCAAAGCCAGTTTGAAGAGATGAGATCAAGCTACATTAGAGAG  
 CTCATCAAGGCAATTGGTTTGAGGCAAAAGGAGTTGTTTCCAGCTCACAGCGTTTCTATCAGC  
 TCACAAAACTTCTTGATAAATTCATGATCTTGTCAAAACAACCTTCACCTGTACTGCCTGAATAC

*Fig. 9D*

ATTATCCAGTCCCGGCGCTGAGTGTTGAATTTCCAGAAATGATGTCCTGAAGTTATTGCTGCA  
 CAGTTACCCCAAGATATTGGCAGGGATGGTGAAACCACCTCTCTTTCATAAAAAGTGAATGTCAA  
 TTATTTTCAAAGAAATTAAGTGTGTGGTATGTCTTTTCGTTTGGTCAGGATTATGACGTCCTCG  
 AGTTTTTTATAATATCTGAAAGGGAATTCCTGCAGCCCGGGGATCCACTAGTTCTAGAGGATC  
 CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAATGCAGTGAAAAAAATG  
 CTTTATTTGTGAAATTTGTGATGCTATTGCTTTATTGTAAACCATTATAAGCTGCAATAAACAA  
 GTTAACAACAATTGCAATTCATTTTATGTTTCAGGTTCAAGGGGAGGTGTGGGAGGTTTTTT  
 AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCGTCIG  
 GCCGGACCAAGCTATCTGTGCAAGGTCCCCGGACGCGCGCTCCATGAGCAGAGCGCCCGCGCC  
 GAGGCAAGACTCGGGCGGCGCCCTGCCCGTCCCACAGGTCAACAGGCGGTAAACCGGCCTCTTC  
 ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCTGGCGGACGGGAAGTATCAGCT  
 CGACCAAGCTTGGCGAGATTTTTCAGGAGCTAAGGAAGCTAAATGAGAGAAAAAATCACTGGAT  
 ATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACAATTTTGAGGCATTTTCAGTCAGTTGC

*Fig. 9E*

TCAATGTACCTATAACCAGACCGTTTACGCTGCATTAAATGAATCGGCCAACGCCGGGAGAGGC  
 GGTTTGCGTATTGGGGCGCTCTTCCGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGCTCGGC  
 TCGGGCAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAA  
 CGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCGTTG  
 CTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA  
 GGTGGCGAAACCCGACAGGACTATAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCG  
 CTCCTCCGTTCGACCCCTGCCGCTTACCGGATACCCTGTCCGCTTCTCCCTTCGGGAAGCGTG  
 GCGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGTCTGTTCCGCTCCAAGCTGG  
 GCTGTGTGCAGAACCCCGTTTCAGCCCGACCGCTGCGCTTATCCGGTAACCTATCGTCTTGA  
 GTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA  
 GCGAGGTATGTAGCGGTGCTACAGAGTTCTTGAAGTGGTGCCCTAACTACGGCTACACTAGAA  
 GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC  
 TTGATCCGGCAACAAACACCGCTGGTAGCGGTGTTTTTTTTTTGTTTGCAAGCAGCAGATTACG

*Fig. 9F*

CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA  
 ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT  
 TTTAAATTAAAAATGAAGTTTTTAAATCAATCTAAAGTATATAGAGTAAACTTGGTCTGACAGT  
 TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTG  
 CCTGACTCCCCGTCGTGTAGATAACTACGATACGGAGGGCTTACCATCTGGCCCCAGTGCTGC  
 AATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAACAGCCAGCCCGGA  
 AGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCCTCCATCCAGTCTATTAAATTGTTGCC  
 GGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTGGCGCAACGTTGTTGCCATTGCTACAGG  
 CATCGTGTGTACGCTCGTCGTTTGGTATGGCTTCATTTCAGCTCCGGTTCCTCAACGATCAAGG  
 CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCCTCCGATCGTTG  
 TCAGAAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTAC  
 TGTCAATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAA  
 TAGTGTATGCGGCGACCGAGTTGCTCTTTGCCCCGGCGTCAATACGGGATAATACCGGCCACATA

*Fig. 9G*

GCAGAACTTTAAAAGTGCTCATCTTGAAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTT  
 ACCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCAACCCTGATCTTCAGCATCTTTT  
 ACTTTCACCAGCGTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGAATAA  
 GGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATAATTATTGAAGCATTTATCA  
 GGGTTATTGTCTCATGAGCGGATACATAATTGAAATGTAATTAGAAAAATAAACAAATAGGGGTT  
 CCGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAA  
 CCTATAAAAAATAGGCGTATCACGAGGCCCTTTTCGTC

*Fig. 9H*

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC  
 AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT  
 CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG  
 TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG  
 AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTA  
 GCGGTGTACGGTGGGAGGCCATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG  
 ACGCCATCCACGCTGTTTGTACCTCCATAGAAGACACCGGACCGATCCAGCCTCCGCGGCCCCC  
 GAATTCCGCCACGACCATGACCATGACCCCTCCACACCAAAGCATCTGGGATGGCCCTACTGCA  
 TCAGATCCAAGGAAACGAGCTGGAGCCCTGTGAACCGTCCGCAGCTCAAGATCCCCCTGGAGCGG  
 CCCCCTGGGCGAGGTACCTGGACAGCAGCAAGCCCGCCGTGTACAACTACCCCGAGGGCGCCG  
 CCTACGAGTTCAACGCCGCGGCCGCCGCCAACGCGCAGGTCTACGGTCAGACCGGCCCTCCCCCTA  
 CGGCCCGGGTCTGAGGCTGCGGCGGTTTCGGCTCCAACGGCCCTGGGGGGTTTCCCCCCTCAAC  
 AGCGTGTCTCCGAGCCCGCTGATGCTACTGCACCCCGCCCGCAGCTGTGCGCCTTTCCTGCAGC

*Fig. 10A*

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCAGCGGCTACACGGTGGCGGAGGC  
 CGGCCCGCCGGCAATCTACAGGCCAAATTCAGATAAATCGACGCCAGGTTGGCAGAGAAAAGATTG  
 GCCAGTACCAATGACAAGGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGTCAG  
 TGTGCAATGACTATGCTTCAGGCTACCATTTATGGAGTCTGGTCCTGTGAGGGCTGCAAGGCCTT  
 CTTCAAGAGAAGTATTCAAGGACATAACGACTATATGTGTCCAGCCACCAACCAGTGCACCATT  
 GATAAAAACAGGAGGAAGAGCTGCCAGGCCCTGCCGGCTCCGCAAAATGCTACGAAGTGGGAATGA  
 TGAAAGGTGGGATACGAAAAGACCCGAAGAGGGGAGAAATGTTGAAAACACAAGCGCCAGAGAGA  
 TGATGGGGAGGGCAGGGGTGAAGTGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCA  
 AGCCCCGCTCATGATCAAACGCTCTAAGAAAGAACAGCCTGGCCTTGTCCCTGACGGCCGACCAGA  
 TGGTCATGGCCTTGTTGGATGCTGAGCCCCCATACTCTATTCCGAGTATGATCCTACCAGACC  
 CTTCAGTGAAGCTTCGATGATGGGCTTACTGACCACCTGGCAGACAGGGAGCTGGTTCACATG  
 ATCAACTGGCGAAGAGGGTGCCAGGCTTTGTGGATTTGACCCCTCCATGATCAGGTCCACCTTC  
 TAGAATGTGCCTGGCTAGAGATCCTGATGATTGGTCTCGTCTGGCGCTCCATGGAGCACCCAGT

*Fig. 10B*



GAAGCTACTGTTTGCTCCTAACTTGCTCTTGACAGGAACCAGGAAAAATGTGTAGAGGGCATG  
 GTGGAGATCTTCGACATGCTGCTGGCTACATCATCTGGTTCCGCATGATGAATCTGCAGGGAG  
 AGGAGTTTGTGTGCCCTCAAATCTATTATTTTGCTTAATTCTGGAGTGTACACATTTCTGTCCAG  
 CACCCCTGAAGTCTCTGGAAGAGAGAGACCATATCCACCGAGTCCCTGGACAAGATCACAGACACT  
 TTGATCCACCTGATGGCCCAAGGCAGGCCCTGACCCCTGCAGCAGCAGCACCGGCTGGCCCCAGC  
 TCCTCCTCATCCTCTCCACATCAGGCACATGAGTAACAAAGGCATGGAGCATCTGTACAGCAT  
 GAAGTGCAAGAACGTGGTGCCCCCTCTATGACCTGCTGCTGGAGATGCTGGACGCCACCGCCTA  
 CATGCGCCCACTAGCCGTGGAGGGGCATCCGTGGAGGAGACGGACCCAAAGCCACTTGGCCACTG  
 CGGGCTCTACTTCATCGCATTCCTTGCAAAAAGTATTACATCACGGGGGAGGCAGAGGGTTTCCC  
 TGCCACAGTCTGAGAGCTCCCTGGCGGAATTCGAGCTCGGTACCCGGGGATCCTCTAGAGGATC  
 CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAATGCAGTGAAAAAAATG  
 CTTTATTTGTGAATTTGTGATGCTATTGCTTTATTGTAAACCATATAAGCTGCAATAAACAA  
 GTTAAACAACAATTGCATTCTTTTATGTTTCAGGTTTCAGGGGAGGTGTGGAGGTTTTTT

*Fig. 10C*

AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTGTG  
GCCGGACACGCTATCTGTCAAGTCCCCGGACGCGGCTCCATGAGCAGAGCGCCCGCGCC  
GAGCAAGACTCGGGCGGCCCTGCCCCGTCCACCAAGGTCAACAGGCGGTAAACCGGCCCTCTTC  
ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCCTGGCGGACGGGAAGTATCAGCT  
CGACCAAGCTTGGCGGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAATCACTGGAT  
ATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTTCAGTCAGTTGC  
TCAATGTACCTATAACCAGACCGTTTCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGC  
GGTTTGCGTATTGGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGC  
TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAAATCAGGGATAA  
CGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCCGGTTG  
CTGGCGTTTTCCTATAGGCTCCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA  
GGTGGCGAAACCCGACAGGACTATAAAGATACCAGCGTTTCCCCCTGGAAAGCTCCCTCGTGCG  
CTCTCCTGTTCCGACCTGCGGCTTACCGGATACCTGTCCGCTTTCTCCCTTCGGGAAGCGTG

*Fig. 10D*

GCGCTTCTCAATGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTGCTCCAAGCTGG  
 GCTGTGTGACGAACCCCCGTTCAGCCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGA  
 GTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGTGTAAACAGGATTAGCAGA  
 GCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA  
 GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC  
 TTGATCCC GCAAAACAACCCGCTGGTAGCGGTGTTTTTTTTTGTGTTGCAAGCAGCAGATTACG  
 CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA  
 ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT  
 TTTTAAATTAAAAATGAAGTTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGT  
 TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTG  
 CCTGATCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCCAGTGTGCA  
 ATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACAGCCAGCCGGAA  
 GGGCCGAGCGCAGAAGTGTCTGCAACTTTATCCGCCCTCCAGTCTATTAATTGTTGCCG

*Fig. 10E*

GGAAGCTAGAGTAAGTAGTTGCGCAGTTAATAGTTTGGCGAACGTTGTTGCCATTGCTACAGGC  
ATCGTGGTGTCACGCTCGTCTGTTGGGTATGGCTTCATTTCAGCTCCGGTTCCTCCCAACGATCAAGGC  
GAGTTACATGATCCCCCATGTTGTGCAAAAAGCGGTTAGCTCCTTCGGTCTCCGATCGTTGT  
CAGAAAGTAAGTTGGCCCGCAGTGTATCACTCATGGTTATGGCAGCAGTGCATAATTCTCTTACT  
GTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAAT  
AGTGATGCGGCGACCGAGTTGCTCTTGCCCCGGCGTCAATACGGGATAATACCGCGCCACATAG  
CAGAACTTTAAAAGTGCTCATCTGGAACACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTA  
CCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCAACCCAACTGATCTTCAGCATCTTTTA  
CTTTCACCCAGCGTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAATGCCGCCAAAAAAGGGAATAAG  
GGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATAATTATTGAAGCAATTATCAG  
GGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAAATAAACAAATAGGGGTTTC  
CGCGCACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTTATTATCATGACATTAAC  
CTATAAAAATAGGCGTATCACGAGGCCCTTTCGTC

*Fig. 10F*

FIG. 11

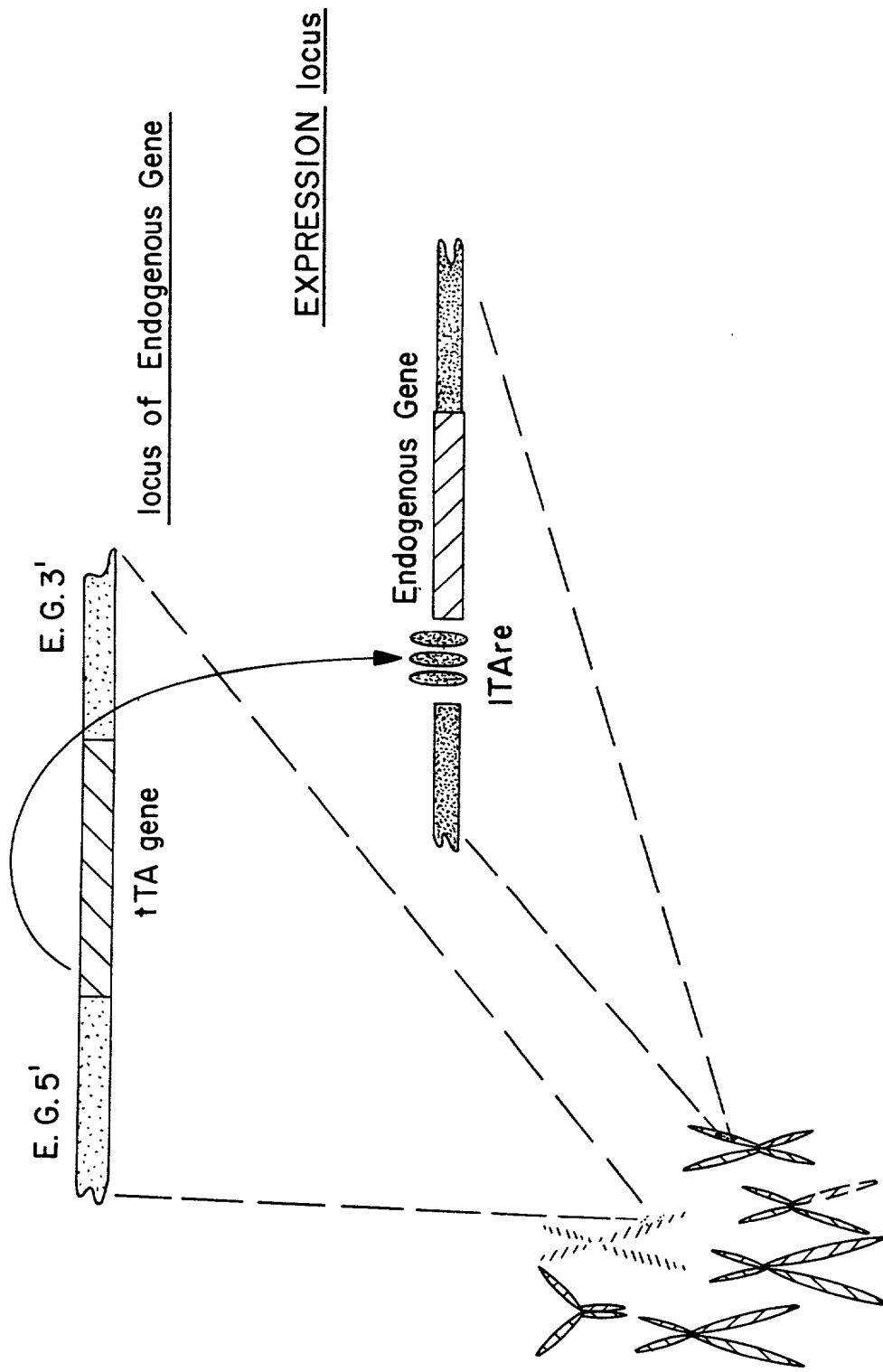


FIG. 12

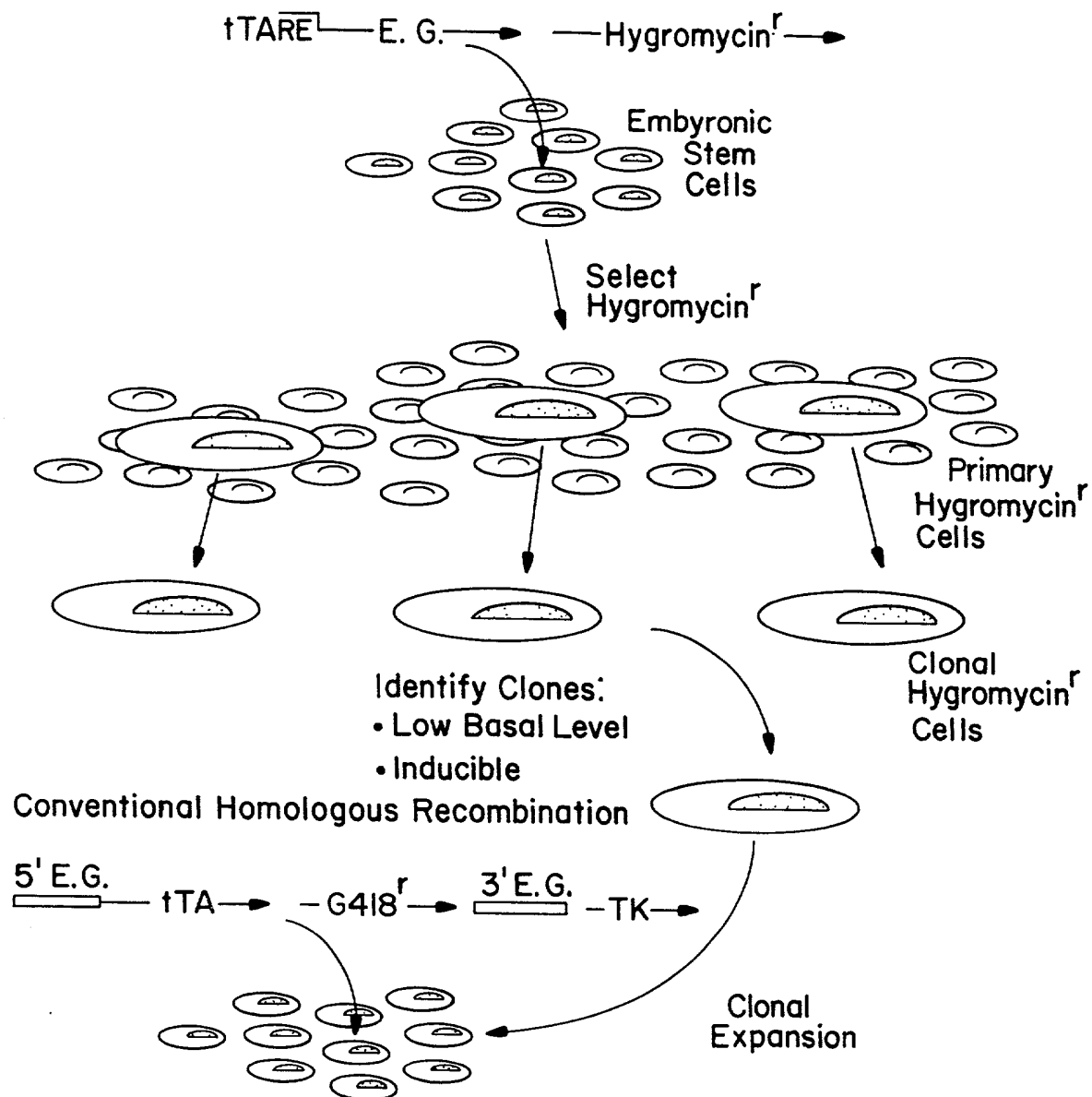


FIG. 13A

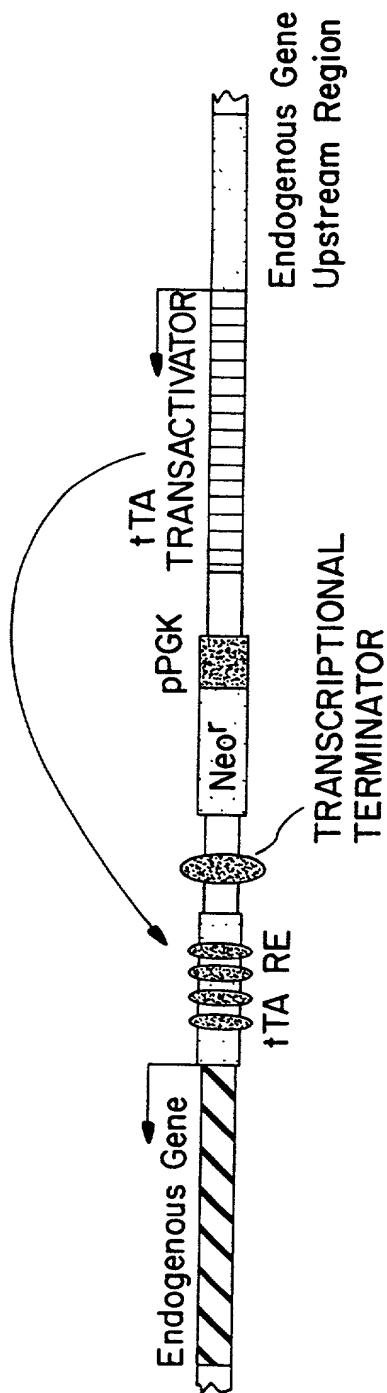


FIG. 13B

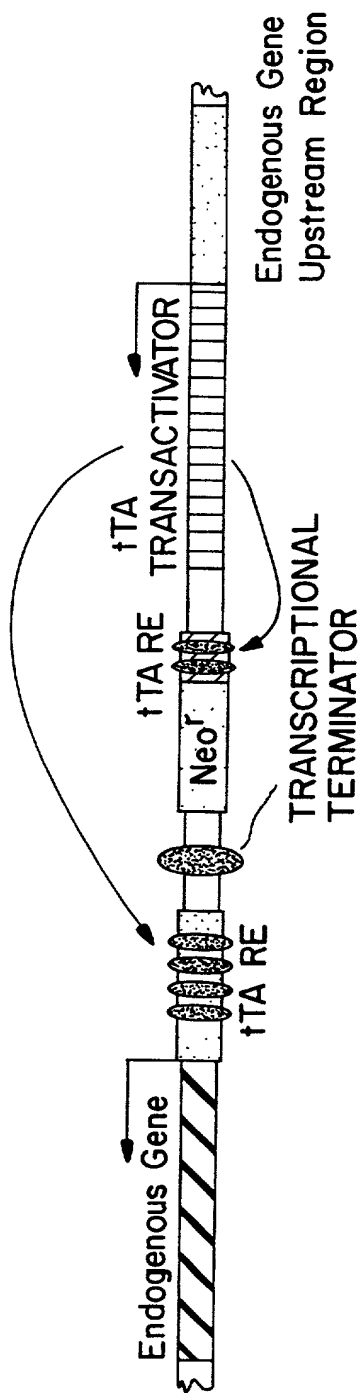


FIG.14

